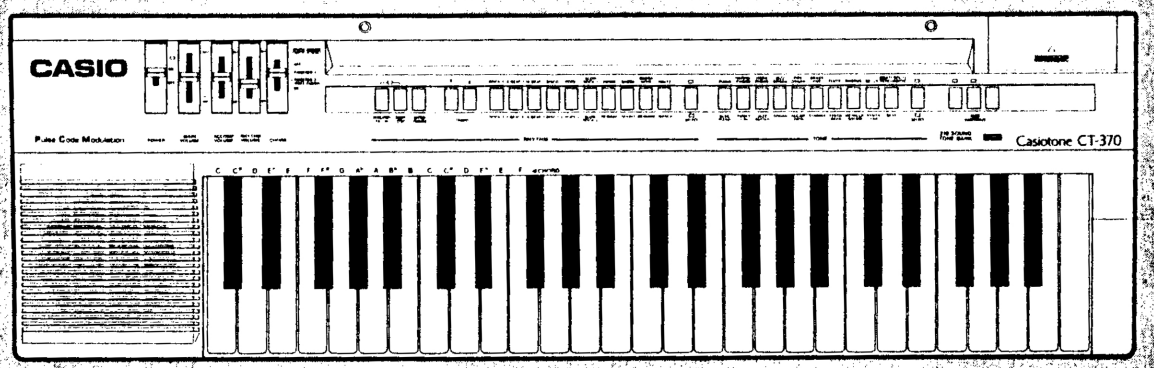
Casiotone CT-370

ELECTRONIC MUSICAL INSTRUMENT
INSTRUMENTO MUSICAL ELECTRONICO

OPERATION MANUAL 2
MANUAL DE OPERACION 20



英 西

Casiotone CT-370

ELECTRONIC MUSICAL INSTRUMENT

Introduction

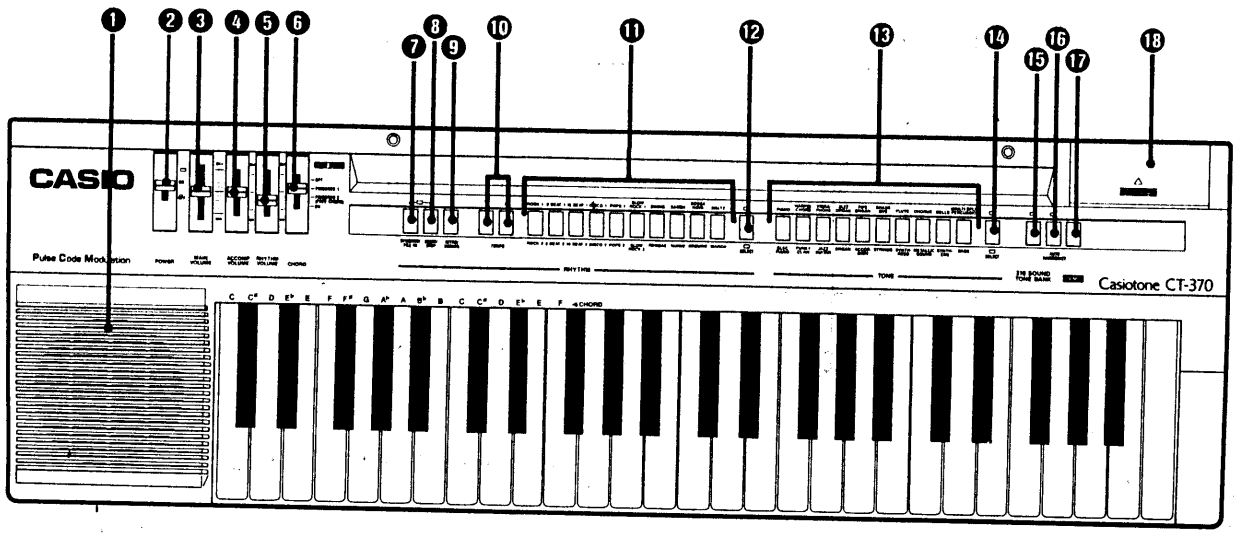
Your new CT-370 keyboard is a state-of-the-art musical instrument which incorporates the latest electronics technology to make its operation as easy as possible. Exceptional sound quality backed up by a host of sophisticated features and functions makes this keyboard a joy to play for everyone.

In order to enjoy the features and functions of this unit to their fullest, be sure to carefully read this manual and follow the instructions contained herein.

Contents

1. General Guide 3
2. Power Supply 5
3. General Operation 6
4. Preset Tones 7
5. Tone Bank Sounds 8
6. Auto-rhythms 10
7. Auto-accompaniment 11
8. Troubleshooting 15
9. Care of Your Keyboard 16
10. Specifications 17

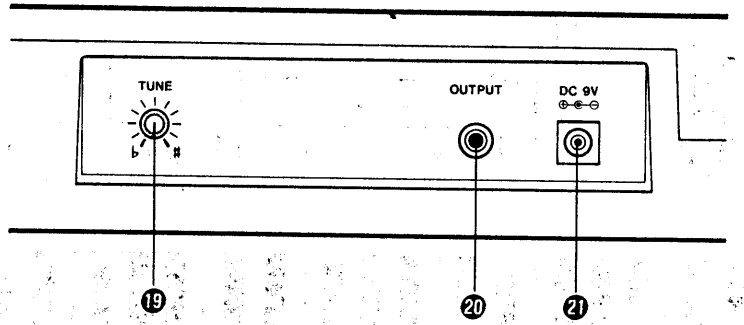
1. General Guide



❶ Built-in speaker
❷ Power switch
❸ Main volume slider
❹ Accomp volume slider
❺ Rhythm volume slider
❻ Casio Chord selector
❼ Synchro/fill-in button
❽ Rhythm start/stop button
❾ Intro/ending button
❿ Tempo control buttons
⓫ Rhythm selectors
⓬ Rhythm select button
⓭ Tone selectors
⓮ Tone select button
⓯ Tone Bank button
⓰ Auto harmonize button
⓱ Demo button
⓲ Battery compartment

.... 3
.... 5
.... 6
.... 7
.... 8
....10
....11
....15
....16
....17

[Rear panel]



⑲ Tuning control
Adjust the pitch of the entire keyboard within ±30 cents and allows easy tuning with other instrument.

⑳ Output jack

㉑ AC adaptor jack

Demonstration Tune

This unit features a preset demonstration tune which has been carefully programmed to showcase all the features and benefits of this unit. Simply press the Demo button ⑰, and listen to the CT-370 plays itself!

** The demonstration tune is played in an endless loop. Press the Demo button again to stop the tune.*

** The keyboard is inoperable while playing the demonstration tune.*

2. Power Supply

DC Power

- **Dry batteries**

  This unit can be powered by six D size (SUM-1/R20P) manganese dry cell batteries. Weakened batteries will result in lower volume or poor tonal quality. The power indicator lamp will gradually lose its brightness when battery power weakens. At this time, change batteries or shift to one of the alternate power sources mentioned below.

Battery replacement:

① Open the battery compartment cover on the front of the unit and take out used batteries.

② Load new batteries taking care that polarity is correct.

* *It is advisable to replace all six batteries at the same time for longer battery life.*

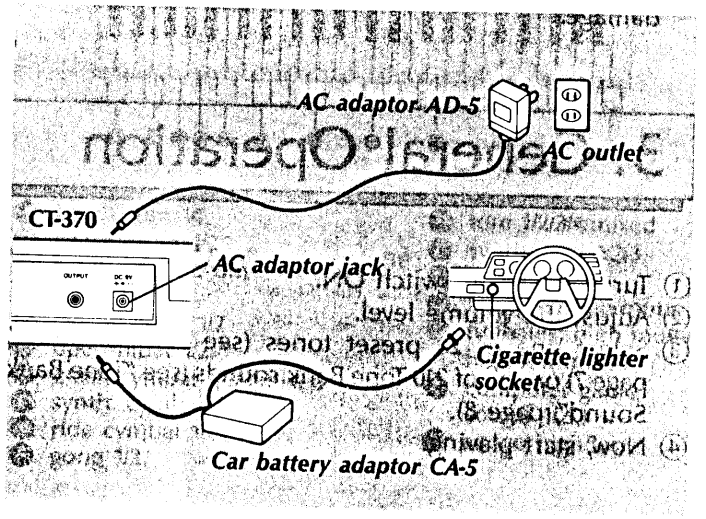
* *Standard battery life is approximately 6 hours.*

- **Car battery**

  With the car battery adaptor (CA-5, optional), DC power is supplied from a car battery through the cigarette lighter socket.

AC Power

An AC adaptor (AD-5, optional) is required when using household current. Use only a genuine CASIO adaptor with the same voltage rating (100, 117, 220, or 240) as the power supply in your area to prevent component damage. Plug the AC adaptor into the AC outlet and the cord into the unit. This will automatically cut off the battery power supply.



★ Auto power off function

Power is automatically cut off approximately 6 minutes after the last operation of the unit. Power supply can be restored by switching power OFF and then ON again.

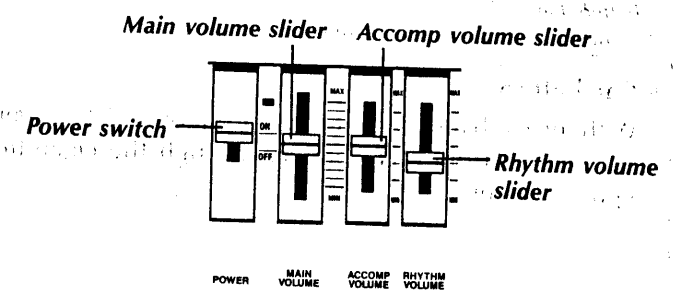
CAUTION

* Use only genuine CASIO adaptors to avoid risk of damage.
* Remove batteries from the battery compartment when the unit is not used for extended periods. (Battery leakage can damage electrical parts.)
* The adaptor may become warm when left connected to an outlet. This is normal, but the adaptor should be disconnected when not in use.
* THE FOLLOWING CONDITION CAN CAUSE BATTERIES TO BURST:

1. Use of adaptors other than genuine CASIO adaptors.
2. Loading batteries with polarities reversed.

3. General Operation

① Turn the power switch ON.
② Adjust the volume level.
③ Select one of 20 preset tones (see "Preset Tones", page 7) or one of 210 Tone Bank sounds (see "Tone Bank Sound", page 8).
④ Now, start playing.



4. Preset Tones

• To select a preset tone

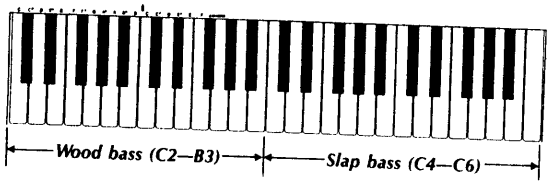
① Specify either the upper or lower row of preset tones by pressing the tone select button, The upper or lower select indicator lights to show the active row.

② Press one of the tone selectors to choose a preset tone.

** "PIANO" tone is automatically selected when power is turned ON.*

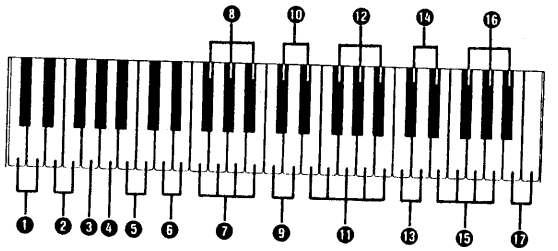
• Dual bass sounds

When BASS sound is selected by pressing the "BASS" button (one of the tone selector), two different bass tones can be played on the keyboard at the same time. The WOOD BASS tone sounds on the lower half of the keyboard (C2—B3), while the SLAP BASS tone sounds on the upper half (C4—C6).



• To select percussion sounds

When PERCUSSION sound is selected by the tone selector, the keyboard keys can be used to play a total of 42 different built-in percussion sounds. These sounds are assigned to respective keys as shown below;



❶ bass drum 1/2
❷ snare drum 1/2
❸ gated snare drum
❹ rim shot
❺ closed hihat 1/2
❻ open hihat 1/2
❼ crash cymbal 1/2/3/mixed
❽ synth. cymbal 1/2/3
❾ ride cymbal 1/2
❿ gong 1/2
⓫ tom 1/2/3/4/mixed
⓬ synth. tom 1/2/3
⓭ cow bell 1/2
⓮ triangle open/mute
⓯ timbales; high mute/ high/low/mixed
⓰ computer game sound 1/2/3
⓱ agogo high/low

5. Tone Bank Sounds

This keyboard features Casio's innovative "Tone Bank" feature, which lets you choose from an amazing total of 210 different sound combinations. To create these layered sounds, the Tone Bank function actually integrates the characteristics of the 20 preset sounds which are produced by the new PCM sound source to create entirely new and distinct sounds which can be selected through the following procedure.

• To select Tone Bank sounds

① Select any of the 20 preset tone. When selecting Tone Bank sounds, the tone initially selected is used as a base, or "Primary" sound.

** When the Primary sound is selected, the keyboard features 10-note polyphony.*

② Press the Tone Bank button.
This activates the Tone Bank function, allowing you to choose a Secondary sound to integrate with the Primary sound you just selected.

** After the Tone Bank button is pressed, the keyboard changes to 5-note polyphony.*

③ Select any other of the 20 preset tones. The characteristics of this "Secondary" sound is automatically integrated with those of the "Primary" sound already selected.

• To select a different secondary sound

The secondary sound can be changed at any time, as long as the Tone Bank function is selected. Simply select a different preset tone—the primary sound remains the same.

• To select a different primary sound

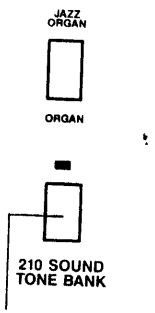
The primary sound can be changed by first turning the Tone Bank function OFF (press Tone Bank button so that indicator goes out), selecting any other preset tone, and finally turning the Tone Bank function back ON. The secondary tone remains the same in this case.

<Example of Tone Bank Operation>

① Select the preset ORGAN tone by pressing the corresponding tone selector. (This is the "Primary" sound.) Initially, the ORGAN tone can be played with 10-note polyphony.

② Press the Tone Bank button. The ORGAN tone can now be played with 5-note polyphony.

* *Indicator lights*



Tone bank button

NOTE:
When power is turned ON, the PIANO tone is automatically selected in Tone Bank memory. Because of this, procedure ② above causes the ORGAN tone to be integrated with the PIANO tone.

③ Select the preset CHORUS tone by pressing the corresponding tone selector. (This is the "Secondary" sound.) Now, the "ORGAN + CHORUS" integrated Tone Bank sound can be played with 5-note polyphony.

④ Next, try changing the Secondary sound by selecting the preset FLUTE tone. The "ORGAN + FLUTE" integrated Tone Bank sound can be played with 5-note polyphony.

⑤ Next, try changing the Primary sound by first pressing the Tone Bank button once again to turn the Tone Bank function OFF temporarily. The preset ORGAN tone can once again be played with 10-note polyphony.

⑥ Select a new Primary sound—the STRINGS tone for example, and turn the Tone Bank function back ON. As the secondary sound (FLUTE) does not change in this case, you can now play the "STRINGS + FLUTE" integrated Tone Bank sound with 5-note polyphony.

6. Auto-rhythms

• Playing an auto-rhythm

① Press the rhythm select button to choose the upper row or the lower row of auto-rhythms. The upper or lower select indicator lights to show the active row.
② Press one of the rhythm selectors.
③ Press start/stop button to start the rhythm.
④ Adjust the tempo of the rhythm by using the tempo control buttons. Pressing the <▲> button will increase tempo, while pressing the <▼> button will decrease tempo.

* *Tempo of the auto-rhythm can be adjusted between 40 and 256 beats per minute. Pressing both tempo keys at the same time resets the tempo to 132 beats per minute.*

⑤ You can adjust the relative volume of the rhythm by using the rhythm volume slider.
⑥ Press start/stop button once again to stop auto-rhythm play.

• Using Synchro/fill-in button

Press to enter synchro start standby. Rhythm starts when an accompaniment keyboard key (lower 1.5 octave, C through F) is pressed. (See page 12–13 to use synchro start in the auto-accompaniment performance.) When pressed during auto-rhythm and accompaniment performance, an appropriate fill-in is inserted in the rhythm pattern. If the button is held down, the fill-in pattern is repeated until the end of the measure during which the button is released.

• Using Intro/ending button

If you press the intro/ending button instead of pressing the start/stop button to start an auto-rhythm, the selected auto-rhythm begins after a one-measure intro pattern. This can be an effective way to lead into auto-rhythm performance. If pressed during auto-rhythm and accompaniment performance, the rhythm stops after an appropriate ending pattern.

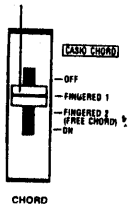
★ Using synchro start with an intro pattern

Press the synchro/fill-in button to enter synchro start standby, and subsequently press the Intro/ending button. Rhythm starts when an accompaniment keyboard key is pressed, after a one-measure intro pattern.

7. Auto-accompaniment

- **Casio Chord selector**
  Slide to select one of the Casio Chord functions.

Casio Chord selector



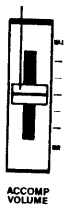
OFF .....For normal play without auto-accompaniment.

FINGERED 1 & 2 ...For auto-accompaniment pressing chords as usual.

ON .....For auto-accompaniment using the Casio Chord system.

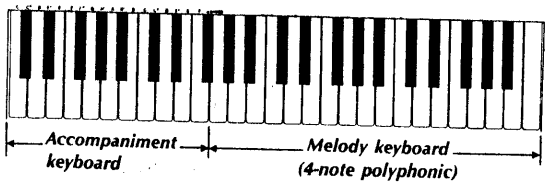
- **Accompaniment volume control**
  Adjust the volume of the auto-accompaniment.

Accomp volume slider



NOTES:

- If the Chord/MIDI selector is set to "FINGERED (1 or 2)" or "ON", the lower 1.5 octave of the keyboard become accompaniment keyboard keys, and the upper part of the keyboard becomes 4-note polyphonic.



- During auto-accompaniment performance, chord played on the accompaniment keyboard will continue to sound after releasing the keys.
- Auto-accompaniment starts with rhythm, the moment the accompaniment keyboard key is pressed if synchro start is in standby status.

Casio Chord system

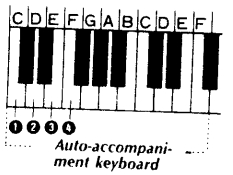
The Casio Chord system has been developed so you can play the four main types of chords more easily. Playing of the chords is simplified as shown below:

- Pressing one of the accompaniment keyboard keys produces a major chord corresponding to that note.
- Simultaneously pressing any key to the right (two keys at the same time) results in a minor chord.
- Similarly, pressing one more key to the right (three keys in all) produces a seventh chord, and pressing the fourth key to the right (four keys in all) creates a minor seventh chord.

<Examples>

C (C major chord)—Press ❶.
Cm (C minor chord)—Press ❶, ❷ together.
C7 (C seventh chord)—Press ❶, ❷, ❸ together.
Cm7 (C minor seventh chord)—Press ❶, ❷, ❸, ❹ together.

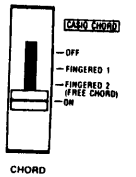
* *Not only ❷, ❸, and ❹, but any black or white keys can be used as long as they are to the right of ❶.*



Auto-accompaniment keyboard

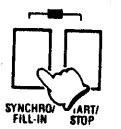
[1] Auto-accompaniment using the Casio Chord system (One-finger method)

① Set the Casio Chord selector to "ON".



② Select one of the auto-rhythms and press the synchro/fill-in button.

* *Tempo indicator lights, meaning that the accompaniment keyboard keys are ready for play.*



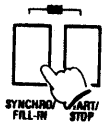
③ Play on the accompaniment keyboard keys according to the Casio Chord system.

* *Adjust the tempo and accompaniment volume using the respective controls.*

[2] Auto-accompaniment play using standard chord fingering

① Set the Casio Chord selector to "FINGERED 1" or "FINGERED 2".

② Select one of the auto-rhythms and press the synchro/fill-in button.



** Tempo indicator lights, meaning that the accompaniment keyboard keys are ready for play.*

③ Play a chord on the accompaniment keyboard keys.

** Adjust the tempo and accompaniment volume using the respective controls.*

** This unit is capable of recognizing the following chords; <M, m, −5, +5, dim, sus4, 7, M7, m7, mM7, m7-5, 7sus4, 9, m9>*

<About "Fingered 1" and "Fingered 2">

This keyboard features two different types of fingered accompaniment patterns. You can select which type you want by selecting either the Fingered 1 mode, or the Fingered 2 mode. Respective accompaniment patterns and characteristics are as listed below.

(Fingered 1 Accompaniment)

Accompaniment consists of a single bass line and two different backing chord patterns. The pattern does not change until you play a chord consisting of at least 3 notes.

(Fingered 2 Accompaniment)

Accompaniment consists of a single bass line and a single backing chord pattern. In addition, you can add notes manually in two-note polyphony on the "accompaniment keyboard" without affecting the accompaniment pattern. The pattern does not change until you play a chord consisting of at least 3 notes.

** Auto-accompaniment tones are preset in correspondence to each auto-rhythm type. A list of auto-rhythms and corresponding accompaniment tones is provided on page 14.*

<About the tones used in the auto-accompaniment>

Each auto-accompaniment pattern consists of one bass line and two types of chord lines (chord 1 and chord 2). The tones of these elements are preset corresponding to each auto-rhythms as shown below;

RHYTHMS	CHORD 1 TONES	CHORD 2 TONES	BASS TONES
ROCK 1	BRASS ENS.	METALLIC SOUND	SLAP BASS
ROCK 2	BRASS	SYNTH. CLAVI	SLAP BASS
8 BEAT 1	JAZZ ORGAN	PIANO	SLAP BASS
8 BEAT 2	METALLIC SOUND	BRASS ENS.	SLAP BASS
16 BEAT 1	MARIMBA	ELEC. PIANO	SLAP BASS
16 BEAT 2	SYNTH. CLAVI	BRASS ENS.	SLAP BASS
DISCO 1	SYNTH. CELESTA	BRASS ENS.	SLAP BASS
DISCO 2	HARP	STRINGS	BRASS ENS.
POPS 1	JAZZ ORGAN	PIANO	WOOD BASS
POPS 2	FLUTE	BRASS ENS.	SLAP BASS
SLOW ROCK 1	PIANO	VIBRAPHONE	WOOD BASS
SLOW ROCK 2	PIANO	HARP	WOOD BASS
SWING	PIANO	BRASS ENS.	WOOD BASS
SAMBA	SYNTHE. CLAVI	JAZZ ORGAN	SLAP BASS
BOSSA NOVA	ELEC. PIANO	STRINGS	WOOD BASS
WALTZ	STRINGS	ORGAN	WOOD BASS
REGGAE	JAZZ ORGAN	FUNKY CLAVI	SLAP BASS
TANGO	ACCORDION	PIANO	WOOD BASS
BEGUINE	PIANO	JAZZ GUITAR	WOOD BASS
MARCH	BRASS ENS.	FLUTE	BRASS ENS.

• Using the auto harmonize function

When you're using the Casio Chord function, you can add automatic harmony to your melodies by pressing the auto harmonize button. If you use this function when Tone Bank button is ON, automatic harmony is added using the "Secondary" sound (see "Tone Bank Sounds", page 8), and "Primary" sound performance becomes monophonic.

Auto harmonize button

** The auto harmonize function is inoperative when Casio Chord selector is set to OFF.*

** When you select this function, melody keyboard performance becomes monophonic even if no accompaniment keyboard keys are pressed.*

*For an

8. Troubleshooting

**For any malfunction, always check battery condition first. (see page 5)*

Trouble	Possible Cause	Remedy
[illegible] keys are [illegible]	1. Main volume turned down. 2. Headphones connected. 3. Auto power off has activated.	1. Turn up main volume. 2. Disconnect headphones. 3. Turn the power switch off and then on again.
[illegible]	Rhythm volume turned down.	Turn up rhythm volume.
[illegible]	Main and accompaniment volume turned down.	Turn up main and accompaniment volume.
[illegible]	Refrigerators, washing machines and similar electric appliances.	Use outlet as far away as possible from appliance thought to be the cause.
[illegible]	1. Main volume turned down. 2. Defective connection cord.	1. Turn up main volume. 2. Replace connection cord.

9. Care of Your Keyboard

1. **Avoid heat, humidity, and direct sunlight.**
   Do not overexpose the unit to direct sunlight, place it near a heater, or in any area subject to high temperature.

2. **Avoid severe impacts and do not drop.**
   Severe impacts can result in malfunction. When carrying or transportion the unit, protect the keyboard and keys by packing with soft cloth.

3. **Keep the unit free of liquids, dust, particles, etc.**
   Do not allow foreign matter to enter between the keys. Be especially careful of metallic objects such as hairpins, sewing needles or coins. Also, do not allow the unit to get wet.

4. **Never attempt to modify any part of the unit.**
   Your keyboard is a precision musical instrument made up of sophisticated electronic parts. Any modification of, or tampering with internal components can cause trouble or malfunction.

5. **Do not use lacquer thinner or similar chemicals for cleaning.**
   Clean the keyboard with a soft cloth dampened with a mild detergent solution and squeeze it until almost dry.

6. **Remove batteries before extended storage.**
   Batteries left in the unit for long periods can leak and cause damage to electronic circuitry.

7. **In case of malfunction...**
   Check whether buttons and connections are set correctly as indicated in the troubleshootiong chart. If the unit still does not work properly, contact the original retailer or a nearby dealer. Never attempt to repair the unit yourself. This can result in serious damage of the components.

10. Specifications

Model:	CT-370
Number of keys:	49 keys
Polyphonic:	10-note polyphonic
Preset tones:	20; Piano, Harpsichord, Vibraphone, Jazz organ, Pipe organ, Brass-ens, Strings, Flute, Chorus, Jazz guitar, Bells, Funky clavi, Metallic sound, Synth-ens, Percussion, Elec piano, Organ, Accordion, Synth-reed, Bass (Wood bass/Slap bass)
Tone bank sounds:	210
Auto-rhythms:	20; Rock 1-2, 8 beat 1-2, 16 beat 1-2, Disco 1-2, Pops 1-2, Slow rock 1-2, Swing, Samba, Bossa nova, Waltz, Reggae, Tango, Beguine, March
Rhythm source:	49 PCM rhythm sources
Auto-accompaniment function:	Casio Chord on/fingered 1/fingered 2
Effect:	Auto harmonize
Terminals:	Output jack [output impedance: 100 Ω, output voltage: 2.5 V (RMS) MAX], AC adaptor jack (DC 9 V)
Tuning control:	A4=442 Hz ±30 cents
Built-in speaker:	12 cm dia

10. Specifications

Auto power off function:	Approximately 6 minutes after the last operation
Power source:	3-way AC/DC power source; • AC: 100, 117, 220, 240 V (±10 V), 50/60 Hz, with optional AD-5 AC adaptor • DC: 6 D size (SUM-1/R20P) manganese dry batteries Battery life: Approximately 6 hours • Car battery: Requires optional CA-5 car adaptor
Power consumption:	7 W
Dimensions:	867(W) × 274(D) × 77(H) mm 34 1/8″ (W) × 10 13/16″ (D) × 3 1/16″ (H)
Weight:	4.9 kg (10.8 lbs) including batteries
Standard accessories:	6 "D" size batteries

**Designs and specifications are subject to change without notice.*

GUIDELINES LAID DOWN BY FCC RULES FOR USE OF THE UNIT IN THE U.S.A. (not applicable to other areas).

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

..... reorient the receiving antenna

..... relocate the computer with respect to the receiver

..... move the computer away from the receiver

..... plug the computer into a different outlet so that computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the US Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.